

NCI-Hosted Technology Stack 2011 DRAFT



This Technology Stack applies to hosting environments supporting applications developed and deployed at the NCI.

Deprecated - The stack that will be retired after June 2012.

Current - The stack that is currently being supported.

Future - The stack that project teams should plan to start using or continue to use.

Forming - The stack that is being formulated.

TECHNOLOGY	Version 1 (Deprecated)	Version 2 (Current)	Version 3 (Future)	Version 4 (Forming)	Remarks
INFRASTRUCTURE COMPONENTS					
Operating Systems					
RHEL - Red Hat Linux	4.x	5.x	5.x	5.x	x: support all non-major releases
Windows Server	2003	2003	2008 R2	2008 R2	Windows server is for use only with a strong business case
Container Technologies					
JBoss	4.0.5	5.1.x	5.1.x	6.x	
Apache Tomcat	5.5.x	6.0.x	6.x	6.x	
Apache Web Server	1.3.x	2.2.x	2.2.x	2.2.x	
Zope/Plone	2.8.7/2.1.3	2.9.11/2.5	2.12.x/4.x	2.12.x/4.x	
Database					
Oracle	10.2.x	10.2.x	10.2.x	11.x	
PostgreSQL	8.3.x	8.4.x	8.4.x	9.x	
MySQL	5.0.x	5.1.x	5.1.x	5.5.x	
NCI CBIIT Technologies					
caBIO API	4.2.x	4.3.x	4.3.x	4.3.x	
caDSR API	4.x	4.x	4.x	4.x	
LexEVS API	5.1.x	6.0.x	6.1.x	6.1.x	
CSM	4.1.x	4.2.x	4.2.x	4.3.x	
caCORE SDK	4.1.x	4.4.x	4.5.x	4.5.x	
CLM	4.1.x	4.1.x	4.1.x	4.1.x	
caAdapter Model Mapping Service	4.1.x	4.4.x	4.4.x	4.4.x	
caGrid	1.3.x	1.4.x	1.4.x	1.5.x	Should check the caGrid Software Compatibility Table
NCI Enterprise Service (NES)	3.2.x	3.2.x	3.2.x	3.2.x	
NCI CBIIT ISO 21090 DT Common Library	2.1.x	2.1.x	2.1.x	2.1.x	
Version Control					

Subversion Server (SVN)		1.6.x	1.x	1.x	Upgrades to this centralized service will be evaluated based on needs.
Other Components					
Service Mix	3.1.2	3.3.x	3.3.x	4.x	
Globus Toolkit	4.0.3	4.0.3	4.0.3	4.x	
DEVELOPMENT AND OTHER COMPONENTS					
Build and Deploy Technologies					
Java Platform	1.5.x	1.6.x	1.6.x	1.6.x	Architecture: 32 bit standard, 64 bit for use with strong business case.
Ant	1.6.x	1.7.x	1.8.x	1.8.x	
Build Server (AnthillPro)	2.6.x	3.x	3.x	3.x	Includes Continuous Integration (CI)
BDA Framework	1.x				
BDA Lite (using AnthillPro)		x	x	x	Includes Continuous Integration (CI) via AnthillPro
Maven Repository	N/A	Maven Nexus	Maven Nexus	Maven Nexus	Upgrades to this centralized service will be evaluated based on needs.
Maven (Build Tool)	2.0.x	2.2.x	2.2.x	2.2.x	
PHP	5.3.2	5.3.2	5.3.5	5.3.x	
Python	2.3.x	2.4.x	2.4.x	2.4.x	
Perl	5.8.x	5.8.x	5.8.x	5.8.x	
C	3.4.x	3.4.x	3.4.x	3.4.x	
Other Technologies					
Authentication (2-factor)			PIV card compliance	PIV card compliance	